



BIOLOGY

BOOKS - TRUEMAN BIOLOGY

HUMAN HEALTH AND DISEASE

Multiple Choice Questions

1. Which of the following is a set of bacterial diseases?

A. Cholera, typhoid and mumps

B. Diphtheria, leprosy and plague

C. Malaria, mumps and poliomyelitis

D. Tetanus, tuberculosis and measles

Answer: B



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2. Which of the following disease is not transmitted through contaminated water?

A. Typhoid

B. Diphtheria

C. Hepatitis A

D. Amoebiasis

Answer: B



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3. BCG stands for

A. Bacterio-chemical gangrene

B. Bacteria culture growth

C. Bacillus Calmette Guerin

D. Bacterial cell genome

Answer: C



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4. Mantoux test is for

- A. scarlet fever
- B. diphtheria
- C. rheumatoid fever
- D. tuberculosis

Answer: D



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5. Which of the following diseases is not caused by virus

A. AIDS

B. Rabies

C. Mumps

D. tuberculosis

Answer: D



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6. Food poisoning (botulism) is caused by the infection of a species of

A. Azotobacter

B. Clostridium

C. Lactobacillus

D. Rhizobium

Answer: B



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7. Fever, delirium, slow pulse, abdominal tenderness and rose coloured rash indicate the disease.

A. measles

B. tetanus

C. typhoid

D. chickenpox

Answer: C



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8. Which of the following is not immunized by triple antigen?

A. Typhoid

B. tetanus

C. Diphtheria

D. Whooping cough

Answer: A



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9. A common disease of domesticated animals is

A. anthrax

B. syphilis

C. cholera

D. diphtheria

Answer: A



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10. Anthrax spores are extremely resistant to environmental changes and therefore may be used in

- A. viral research
- B. bio terrorism
- C. industrial processes
- D. biochemical mutations

Answer: B



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11. ATS inoculation protects our body from

- A. tetanus
- B. tuberculosis
- C. trachoma
- D. typhoid

Answer: A



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12. Toxin produced by tetanus affects

- A. jaw bones
- B. voluntary muscles
- C. cardiac muscles
- D. respiratory system

Answer: B



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13. Bubonic plague is transmitted by

- A. Aedes
- B. Xenopsylla

C. Cockroach

D. Anopheles

Answer: B



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14. Match the following bacteria with the diseases and choose the correct option

Column I	Column II
A <i>Treponemapollidum</i>	1. Plague
B <i>Yersinia pestis</i>	2. Anthrax
C <i>Bacillus anthracis</i>	3. Syphilis
D <i>Vibrio</i>	4. Cholera

A. $A = 1, B = 3, C = 2, D = 4$

B. $A = 3, B = 1, C = 2, D = 4$

C. $A = 2, B = 3, C = 1, D = 4$

D. $A = 4, B = 3, C = 1, D = 2$

Answer: B



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15. Which of the following is not a serological test for early diagnosis of syphilis?

A. TPI

B. VDRL

C. Widal test

D. All of the above

Answer: B



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16. Hansen's disease is another name for:

A. plague

B. leprosy

C. tetanus

D. none of these

Answer: B



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17. Which of the following is a eye infecting disease ?

A. Influenza

B. Trachoma

C. Anthrax

D. diphtheria

Answer: B



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18. Varicella virus causes

A. smallpox

B. influenza

C. chickenpox

D. respiratory infection

Answer: C



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19. Which of the following occurs only in humans?

A. Rabies

B. Malaria

C. Anthrax

D. Mumps

Answer: D



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20. Mumps is a viral disease caused by the inflammation of:

- A. parotid gland
- B. sublingual gland
- C. infraorbital gland
- D. submaxillary gland

Answer: A



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21. Which of the following diseases is not transmitted by houseflies ?

A. Cholera

B. Typhoid

C. Dysentery

D. Yellow fever

Answer: D



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22. The vector of 'breakbone fever' is:

A. Culex

B. Aedes

C. Anopheles

D. none of these

Answer: B



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23. Which one of the following pairs of disease can spread through blood transfusion

- A. Hepatitis and AIDS
- B. Hay fever and AIDS
- C. Asthma and Hepatitis
- D. Diabetes mellitus and Malaria

Answer: A



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24. Which of the following is sexually transmitted disorder?

A. Hepatitis E

B. Hepatitis B

C. Hepatitis A

D. typhoid

Answer: B



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25. AIDS virus has

- A. single stranded DNA
- B. single stranded RNA
- C. double stranded dNA
- D. double stranded RNA

Answer: B



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26. The confirmatory test used to diagnose AIDS is:

A. ESR

B. Widal

C. ELISA

D. Western Blot

Answer: D



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27. Western Blot test the assay detects:

A. WBCs

B. RBSs

C. TLC & DLC

D. Antibodies

Answer: D



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28. Expand ELISA

A. Enzyme Linked Immuno Sorbent Assay

B. Enzyme Linked Ion Sorbent Assay

C. Enzyme Linked Inductive Assay

D. None of the above

Answer: A



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29. 'AIDS day' is celebrated on:

A. 5th June

B. 1st October

C. 11th July

D. 1st December

Answer: D



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30. Polio virus enters through:

- A. food and water
- B. respiratory tract
- C. urinogential tract
- D. inoculation by mosquito

Answer: A



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31. The region in the body where the polio virus multiplies:

- A. muscle cells
- B. nerve cells
- C. intestinal cells
- D. none of these

Answer: C



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32. Trypanosomiasis is transmitted by:

A. louse

B. mayfly

C. tsetse fly

D. sandfly

Answer: C



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33. Select the incorrect pair

- A. Xenopsylla - Plague
- B. Culex - Malaria
- C. Glossina - Trypanosomiasis
- D. Aedes - Yellow fever

Answer: B



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34. Black water fever is caused by:

- A. Plasmodium vivax
- B. Plasmodium malareie

C. Plasmodium ovale

D. Plasmodium falciparum

Answer: D



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35. Cerebral malaria is caused by Plasmodium:

A. ovale

B. vivax

C. falciparum

D. all of these

Answer: C



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36. Infection of *Ascaris* occurs by

- A. tsetse fly
- B. mosquito bite
- C. imperfectly cooked pork
- D. contaminated food and water

Answer: D



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37. Culex causes the disease:

A. malaria

B. filariasis

C. yellow fever

D. sleeping sickness

Answer: B



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38. Blood cancer is called:

- A. thrombosis
- B. leukaemia
- C. haemolysis
- D. haemophilia

Answer: B



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39. The spread of cancerous cells to distant sites is termed

- A. metastasis
- B. metachrosis
- C. metagenesis
- D. metamorphosis

Answer: A



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40. Cancer of cervix is caused by:

- A. Pep pills
- B. Fatty diet
- C. Epstein-Barr Virus
- D. Human Papilloma Virus

Answer: D



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41. To which category multiple sclerosis belong?

A. Immunodeficiency diseases

B. Auto-immune diseases

C. Hypersensitivity

D. All of the above

Answer: B



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42. Cancer is generally caused due to activation oftoand/or inactivation of

A. Oncogene, tumour suppressor gene,
protooncogene

B. Tumour suppressor gene, oncogene,
protooncogene

C. Oncogene, protooncogene, tumour
suppressor gene

D. Protooncogene, oncogene, tumour
suppressor gene

Answer: D



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43. Which of the following diseases is associated with smoking?

- A. Bronchitis
- B. Emphysema
- C. Lung cancer
- D. All of these

Answer: D



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44. The substance that causes addiction to tobacco is:

A. A) nicotine

B. B) cocaine

C. C) caffeine

D. D) none of these

Answer: A



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45. Which organ in the body is most affected due to excessive intake of alcohol?

A. A) Liver

B. B) Intestines

C. C) Lungs

D. D) Spleen

Answer: A



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46. The factor that contributes most to the development of cirrhosis is:

- A. A) alcoholism
- B. B) high blood sugar
- C. C) high blood urea
- D. D) high cholesterol

Answer: A



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47. "Fatty liver" syndrome is associated with:

- A. A) smoking
- B. B) alcoholism
- C. C) tea addiction
- D. D) measles

Answer: B



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48. The effect of alcohol on the CNS is as a:

- A. A) stimulant
- B. B) promoter
- C. C) depressant
- D. D) transmitter

Answer: C



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49. Sleeping pills are made from:

- A. A) LSD
- B. B) Cocaine

C. C) Barbiturates

D. D) Amphetamines

Answer: C



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50. Which one is a correct match?

A. A) Bhang - Analgesic

B. B) Cocaine - Opiate narcotics

C. C) Morphine - Hallucinogen

D. D) Barbiturate - Tranquilizer

Answer: D



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51. Which of the following is a synthetic drug?

A. A) LSD

B. B) Opium

C. C) Cocaine

D. D) Pethidine

Answer: D



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52. One of the following is a stimulant:

A. A) LSD

B. B) Opium

C. C) Heroin

D. D) Cocaine

Answer: D



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53. Cocaine is obtained from

A. A) seeds and fruits

B. B) bark

C. C) roots

D. D) leaves and young twigs

Answer: D



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54. Thalidomide, a nonbarbiturate sedative drug given to pregnant women, was withdrawn in 1961 because it resulted in phocomelia or:

- A. A) limb defect
- B. B) early abortion
- C. C) erythroblastosis foetalis
- D. D) poor development of foetus

Answer: A



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55. Heroin, a synthetic drug is derived from:

A. A) ganja

B. B) opium

C. C) bhang

D. D) charas

Answer: B



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56. Which part of poppy plant yields opium?

- A. A) Dried seeds
- B. B) Dried leaves
- C. C) Dried roots
- D. D) Latex from unripe pods

Answer: D



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57. Heroin is:

- A. diacetyl morphine
- B. triacetyl morphine

C. tetraacetyl morphine

D. monoacetyl morphine

Answer: A



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58. Which of the following is not a hallucinogen?

A. LSD

B. Heroin

C. Charas

D. Marijuana

Answer: B



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59. Which of the following suppresses brain function and relieves intense pain?

- A. Cocaine
- B. Morphine
- C. Amphetamine
- D. All of these

Answer: B



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60. An opium derivative is:

A. brown sugar

B. ganja

C. hashish-charas

D. all of these

Answer: A



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61. The term 'brown sugar ' is used for:

- A. acetyl salicylate
- B. 9-tetrahydrocannabinol
- C. lysergic acid diethylamide
- D. diacetylmorphine hydrochloride

Answer: D



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62. Drugs which induce dreamy state of unconsciousness are

A. sedative

B. barbiturate

C. stimulant

D. hallucinogen

Answer: D



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63. Ergot, which is an important source of a drug is obtained from:

A. Agaricus

B. Ephedra

C. Claviceps

D. Commiphora

Answer: C



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64. Match list I (drug) with list II (source) and select the correct answer using the codes given

below the lists

List I	List II
A. LSD	1. <i>Papaver</i>
B. Opium	2. <i>Claviceps</i>
C. Cocaine	3. <i>Cannabis</i>
D. Hashish	4. <i>Erythroxyton</i>

A. A = 2, B = 4, C = 1, D = 3

B. A = 4, B = 1, C = 2, D = 3

C. A = 1, B = 2, C = 4, D = 3

D. A = 3, B = 4, C = 2, D = 1

Answer: B



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65. Match list I (drug) with list II (source) and select the correct answer using the codes given below the lists

List I	List II
A. LSD	1. <i>Papaver</i>
B. Opium	2. <i>Claviceps</i>
C. Cocaine	3. <i>Cannabis</i>
D. Hashish	4. <i>Erythroxyton</i>

A. A = 2, B = 4, C = 1, D = 3

B. A = 3, B = 2, C = 1, D = 4

C. A = 2, B = 1, C = 4, D = 3

D. A = 4, B = 3, C = 2, D = 1

Answer: C



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66. *Atropa belladonna* yields the medicine used for:

- A. malaria
- B. checking the eyes
- C. leprosy
- D. constipation

Answer: B



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67. Which of the following damages gastric mucosa if taken along with alcohol?

A. Aspirin

B. Hashish

C. Valium

D. Barbiturate

Answer: A



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68. Study of interaction of antigen and antibody in blood is

A. serology

B. nephrology

C. angiology

D. haematology

Answer: A



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69. All of the following represent non-specific mechanisms of body defence except:

A. IgM

B. lysozyme

C. stomach acid

D. phagocytosis

Answer: A



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70. Neutrophils and monocytes are important cells participating in:

- A. phagocytosis
- B. perforin production
- C. passive immunity
- D. antibody production

Answer: A



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71. A person is injected with the globulin against hepatitis. This is

- A. naturally acquired active immunity
- B. naturally acquired passive immunity
- C. artificially acquired active immunity
- D. artificially acquired passive immunity

Answer: D



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72. Rejection of tissue or organ transplants is brought about mainly by:

A. Suppressor T-cell

B. B-cells

C. Cytotoxic T-cells

D. Memory T-cells

Answer: C



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73. Which cell of immune system cause pore formation at the surface of the plasma membrane

A. B-cell

B. Killer T-cell

C. Helper T-cell

D. Suppressor T-cell

Answer: B



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74. Memory cells are formed from:

A. monocytes

B. eosinophils

C. neutrophils

D. lymphocytes

Answer: D



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75. Among the organs of the body that are rich in mature T-cells and B-cells are:

- A. Liver and gallbladder
- B. Spleen and lymph nodes
- C. Brain and spinal cord
- D. Small and large intestine

Answer: B



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76. Given:

1. Kupffer cells , 2. T-lymphocytes

3. B-lymphocytes , 4. Megakaryocytes

Of the above tissue macrophages are:

A. 1 only

B. 1, 2 and 3 only

C. 1, 2, 3 and 4

D. 4 only

Answer: A



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77. Shape of antibody is like

A. A

B. P

C. O

D. Y

Answer: D



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78. Each immunoglobulin has two heavy chains & two light chains, the antigen binding site is present in

A. variable region of light chain

B. variable region of heavy chain

C. variable region of both heavy and light chain

D. constant region of both light and heavy chain

Answer: C



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79. The most important long acting antibody representing about 80 % of the antibody that is able to pass across the placenta is:

A. IgD

B. IgG

C. IgM

D. IgA

Answer: B



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80. Immunoglobulin present in tears is:

A. IgG

B. IgE

C. IgA

D. IgM

Answer: C



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81. The type of immunoglobulin whose function is possible antigen recognition by B-cells may be:

A. IgA

B. IgD

C. IgE

D. IgG

Answer: B



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82. Recognition and digestion by phagocytosis due to coated surface of antibodies is:

- A. Opsonization
- B. Immunization
- C. T-cell immunization
- D. B-cell immunization

Answer: A



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83. The function of IgE is:

- A. activation of B-cells
- B. mediate in allergic response
- C. present on lymphocytes surface as receptors
- D. protection from inhaled and ingested pathogens

Answer: B



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84. column I lists the components of body defense and column II lists the corresponding descriptions. Match the two columns. Choose the correct option from those given

Column I

Column II

- | | |
|-----------------------------|---|
| A. Active natural immunity | p. Injection of gamma globulins |
| B. First line of defense | q. Complement proteins and interferons |
| C. Passive natural immunity | r. Direct contact with the pathogens that have entered inside |
| D. Second line of defense | s. Surface barriers |
| | t. Antibodies transferred through the placenta |

A. A = s, B = r, C = t, D = q

B. A = r, B = s, C = q, D = t

C. A = r, B = s, C = t, D = q

D. $A = t$, $B = r$, $C = q$, $D = p$

Answer: C



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85. Immunity due to injection of diphtheria toxoid is an example of:

- A. naturally acquired active immunity
- B. naturally acquired passive immunity
- C. artificially acquired active immunity
- D. artificially acquired passive immunity

Answer: C



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86. Which of the following disease is due to an allergic reaction

- A. Goitre
- B. Skin cancer
- C. Hay fever
- D. Enteric fever

Answer: C



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87. Antihistamine pills are to nullify:

A. malaria

B. Typhoid

C. allergic reaction

D. autoimmune diseases

Answer: C



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88. When a person dies after stung by a bee followed by the administration of penicillin, death may be due to

A. prophylactic shock

B. anaphylactic shock

C. autoimmunity

D. sedation

Answer: B



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89. 'Histamines' the inflammation producing substances are produced by which cells of the body?

- A. Mast cells
- B. Collagen fibres
- C. Macrophages
- D. Sustentacular cells

Answer: A



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90. Edward Jenner prepared the vaccine for smallpox virus by using:

- A. attenuated cowpox virus
- B. attenuated smallpox virus
- C. large does of smallpox virus
- D. small does of smallpox virus

Answer: A



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91. Which type of graft is used in plastic surgery?

A. Isograft

B. Allograft

C. Autograft

D. Xenograft

Answer: C



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92. Grafting of tissue or organ between individuals of different species is called

A. autograft

B. isograft

C. xenograft

D. allograft

Answer: C



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93. The rejection of organ transplanting in humans is prevented by using:

A. Aspirin

B. thrombin

C. calcitonin

D. cyclosporine

Answer: D



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94. Which one of the following provide nonspecific pathogen defence for the body?

A. T-cells

B. B-cells

C. Phagocytes

D. Stem cells

Answer: C



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95. Which of the following provides immunity to digestive tract against antigen?

A. IgA

B. IgD

C. IgG

D. IgE

Answer: A



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96. How many polypeptide chains are present in gamma immunoglobulin?

- A. One
- B. Two
- C. Four
- D. Three

Answer: C



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97. How many polypeptide chains are present in gamma immunoglobulin

or

How many variable segments are present in the basic structure of antibody molecule

A. 6

B. 2

C. 7

D. 4

Answer: D



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98. Match the type of immunity listed in column I with the examples listed in column II. Choose the answer that gives the correct combination of alphabets of the two columns

Column I		Column II	
Types of immunity		Example	
A.	Natural active	p.	Immunity developed by heredity
B.	Artificial passive	q.	From mother to foetus through placenta
C.	Artificial active	r.	Injection of antiserum to travellers
D.	Natural passive	s.	Fighting infections naturally
		t.	Induced by vaccination

A. $A = p, B = q, C = r, D = t$

B. $A = s, B = r, C = t, D = q$

C. $A = s, B = t, C = q, D = r$

D. $A = t, B = s, C = r, D = p$

Answer: B



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99. In the immune system, interferons are a part of

A. macrophages

B. cellular barriers

C. physical barriers

D. cytokine barriers

Answer: D



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100. Which of the following cells does not exhibit phagocytic activity ?

A. Monocyte

B. Basophil

C. neutrophils

D. Macrophage

Answer: B



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101. All the following are related to innate immunity except

A. Anamnestic response

B. Interferons

C. PMNL - neutrophils

D. Monocytes

Answer: A



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102. Thymic hypoplasia is a disease of infancy in which the child is deprived of a thymus. Which of the following is expected to occur in an infant with thymic hypoplasia?

- A. Onset of respiratory distress and breathing difficulties
- B. B-cells fail to mature and are not effective

C. Cell-mediated immunity is weak or non-existent

D. An increase in immunoglobulin (anti-body) levels

Answer: C



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103. Go through the following matches

Organism	Disease caused	Group of the organism
(i) <i>Varicella zoster</i>	Mumps	Virus
(ii) <i>Balantidium coli</i>	Ciliary dysentery	Bacteria
(iii) <i>Shigella</i>	Diarrhoea	Bacteria
(iv) <i>Treponema pallidum</i>	Syphilis	Bacteria

Which of these are correct?

- A. A) (ii) & (iii)
- B. B) (ii),(iii) & (iv)
- C. C) (i), (ii) & (iv)
- D. D) (i), (iii) & (iv)

Answer: B



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104. Go through the following matches

Drug	Group	Source
(i) Cocaine	Tranquiliser	<i>Erythroxylon coca</i>
(ii) LSD	Hallucinogen	<i>Claviceps-purpure a</i>
(iii) Bhang	Hallucinogen	<i>Cannabis sativa</i>
(iv) Ampheta- mine	CNS stimulant	<i>Papaverso- miniferum</i>

Which of these are correct?

A. (iii) & (iv)

B. (i), (iii) & (iv)

C. (ii) and (iii)

D. All are correct

Answer: C



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105. Go through the following Statements

(i) Cocaine interferes with the transport of neurotransmitter dopamine

(ii) Atropa belladonna and Datura are used by criminals for stupefying, roadside robbery and

kidnapping etc.

(iii) Nicotine stimulates adrenal gland to release adrenaline and nor-adrenaline into blood circulation, both of which raise blood pressure and increase heart rate.

(iv) Pethidine, commonly called smack is chemically diacetylmorphine which is obtained by acetylation of morphine .

Which of these are correct?

A. (i) & (iii)

B. (i), (iii) & (iv)

C. (i), (ii) & (iii)

D. All are correct

Answer: C



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106. Find the correct match

Disease	Pathogen	Main organ affected
(1) Typhoid	Bacteria	Liver
(2) Ringworm	Fungus	Skin
(3) Filariasis	Common Round worm	Lymphatic vessels
(4) Dysentery	Protozoa	Duodenum



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107. Find the correct statement.

- A. A) 'Smack' is derived from "Cannabis sativa."
- B. B) Now AIDS is completely treatable with anti-retroviral drugs.
- C. C) Bone marrow, thymus and lymph nodes are the primary lymphoid organs.
- D. D) MALT constitutes about 50 percent of lymphoid tissue in human body.

Answer: D



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108. Which of the following can prove to be a life saving drug in anaphylactic shock?

- A. A) Zidovudine.
- B. B) Penicillin.
- C. C) Acetylcholine.
- D. D) Glucocorticoids

Answer: D



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109. There is oozing of semisolid material which forms a tough membrane over air passage .The disease is

- A. whooping cough
- B. diphtheria
- C. pulmonary tuberculosis
- D. measles

Answer: B



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110. Which structure is directly affected in typhoid fever?

- A. Tongue
- B. Stomach
- C. Payer's Patches
- D. Rectum

Answer: C



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111. Which of the following diseases can be controlled by antibiotics?

A. Polio

B. AIDS

C. Measles

D. Trachoma

Answer: D



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112. Choose the incorrectly matched pair

- A. B cells - Humoral immunity
- B. Cytokines - interferons
- C. Passive immunity - Long lasting
- D. Antibodies - immunoglobulins

Answer: C



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113. Select the wrong statement:

A. A) Main side effects of anabolic steroids in females are masculinisation, excessive hair growth, enlargement of clitoris and deep voice while in males these include acne, reduction in size of testicles and breast enlargement.

B. B) With repeated use of drugs, the tolerance level of receptors present in our body increases and consequently receptors respond only to higher doses of drugs leading to greater intake and addiction.

C. C) Tumor cells avoid detection and destruction by immune system and therefore patients are given biological response modifiers like some interferons which activate the immune system.

D. D) Atropa belladonna and Datura have hallucinogenic properties and cause symptoms like excessive salivation, hot humid skin and constricted pupils.

Answer: D



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114. Select the correct match

Common names of worm or disease	Scientific name of organism	Intermediate host/vector
(1) Guinea worm	<i>Dracunculus medinensis</i>	Cyclops
(2) Filarial worm	<i>Wuchereria bancrofti</i>	Absent

(3) African sleeping sickness	<i>Leishmaniadonovani</i>	Glossina
(4) Hookwork	<i>Ancylostomaduodenale</i>	palpalis Pig



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115. Injured cells release a substance for dilation of blood vessels and increase the permeability of their walls so that the healing materials can be transported to the site of wound. This substance is

- A. A) Histamine
- B. B) Dopamine
- C. C) Angiotensinogen
- D. D) Pyrogen

Answer: A



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116. Go through the following matches

Disease	Vector
(i) Chikungunya	- <i>Aedes</i>
(ii) Dengue fever	- <i>Aedes</i>
(iii) Trypanosoma	- <i>Glossinapalpalis</i>
(iv) Trachoma	- <i>Culex</i>
(v) Plague	- <i>Mansonia</i>

Which of these are correct ?

- A. A) (i), (iii) & (iv).
- B. B) (i), (ii) & (iii).
- C. C) (ii), (iii) & (iv).
- D. D) All are correct.

Answer: B



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117. The sporozoites that cause infection, when a female *Anopheles* mosquito bites a person, are formed in

- A. A) Liver of the person
- B. B) RBCs of mosquito
- C. C) Salivary glands of mosquito
- D. D) Intestine of mosquito

Answer: D



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118. Many diseases can be diagnosed by observing the symptoms in the patient. Which group of symptoms are indicative of pneumonia ?

A. A) Difficulty in respiration, fever, chills, cough, headache.

B. B) Constipation, abdominal pain, cramps, blood clots.

C. C) Nasal congestion and discharge, cough, sore throat, headache.

D. D) High fever, weakness, stomach pain, loss of appetite and constipation.

Answer: A



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119. In malignant tumors, the cells proliferate, grow rapidly and move to other parts of the body to form new tumors. This stage of disease is called.

A. A) metagenesis

B. B) metastasis

C. C) teratogenesis

D. D) mitosis

Answer: B



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120. Which of the following are the reason(s) for Rheumatoid arthritis? Choose the correct option.

(i) Lymphocytes becomes more active

(ii) Body attacks self cells

(iii) More antibodies are produced in the body

(iv) The ability to differentiate pathogens or foreign molecules from self cells is lost

A. (i) and (ii)

B. (ii) and (iv)

C. (iii) and (iv)

D. (i) and (iii)

Answer: B



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121. The substance produced by a cell in viral infection that can protect other cells further infection is :

A. serotonin

B. colostrum

C. interferon

D. histamine

Answer: C



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122. Transplantation of tissues/organs to save certain patients often fails due to rejection of such tissues/organs by the patient. Which type of immune response is responsible for such rejections?

- A. Auto - immune response
- B. Humoral immune response
- C. Physiological immune response
- D. Cell - mediated immune response

Answer: D



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123. Antibodies present in colostrum which protect the new born from certain diseases is of:

A. ig G type

B. IgA type

C. Ig D type

D. Ig E type

Answer: B



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124. Anti-venom against snake poison contains:

A. Antigens

B. Antigen-antibody complexes

C. Antibodies

D. Enzymes

Answer: C



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125. Which of the following glands is larger sized at birth but reduces in size with ageing?

- A. Pineal
- B. Pituitary
- C. Thymus
- D. Thyroid

Answer: C



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126. Haemozoin is:

- A. a precursor of hemoglobin
- B. a toxin released from Streptococcus infected cells
- C. a toxin released from Plasmodium in infected cells
- D. a toxin released from gametophyllus in infected cells

Answer: C



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127. A person with sickle cell anemia is:

- A. More prone to malaria
- B. More prone to typhoid
- C. Less prone to malaria
- D. Less prone to typhoid

Answer: C



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128. Assertion (A): Many visitors to the hills suffer from skin and respiratory allergy problems.

Reason (R): Conifer trees produce a large quantity of wind- borne pollen grains.

A. If both Assertion and Reason are true and the Reason is the correct explanation of the Assertion, then mark a.

B. If both Assertion and Reason are true but the Reason is not the correct explanation of the Assertion, then mark b.

C. If Assertion is true statement but Reason is false, then mark c.

D. If both Assertion and Reason are false statements, then mark d.

Answer: A



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129. Assertion: Tapeworm, roundworm and pinworm are endoparasites of human intestine.

Reason: Improperly cooked food is the source of intestinal infections.

- A. If both Assertion and Reason are true and the Reason is the correct explanation of the Assertion, then mark a.
- B. If both Assertion and Reason are true but the Reason is not the correct explanation of the Assertion, then mark b.
- C. If Assertion is true statement but Reason is false, then mark c.
- D. If both Assertion and Reason are false statements, then mark d.

Answer: B



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130. Which institute is correct matched with its location ?

A. National Institute of Virology - Pune

B. National Institute of Communicable Disease -
Lucknow

C. Central Drug Research Institute - Kasauli

D. National Institute of Nutrition - Mumbai

Answer: A



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131. A young drug addict used to show symptoms of depressed brain activity, feeling of calmness, relaxation and drowsiness. Possibly he was taking:

A. Amphetamine

B. Marijuana

C. Hashish

D. Valium

Answer: D



Watch Video Solution

132. Assertion (A): Organ transplantation patients are given immunosuppressive drugs.

Reason (R): Transplanted tissue has antigens which stimulate the specific immune response of the recipient.

A. If both Assertion and Reason are true and the Reason is the correct explanation of the Assertion, then mark a.

B. If both Assertion and Reason are true but the Reason is not the correct explanation of the Assertion, then mark b.

C. If Assertion is true statement but Reason is false, then mark c.

D. If both Assertion and Reason are false statements, then mark d.

Answer: A



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133. Assertion (A): A person who has received a cut and is bleeding needs to be given antitetanus treatment.

Reason(R): Antitetanus injection provides immunity by producing antibodies for tetanus.

A. If both Assertion and Reason are true and the Reason is the correct explanation of the Assertion, then mark a.

B. If both Assertion and Reason are true but the Reason is not the correct explanation of the Assertion, then mark b.

C. If Assertion is true statement but Reason is false, then mark c.

D. If both Assertion and Reason are false statements, then mark d.

Answer: A



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134. Assertion : LSD and marijuana are clinically used as analgesics.

Reason : Both these drugs suppress brain function.

- A. If both Assertion and Reason are true and the Reason is the correct explanation of the Assertion, then mark a.
- B. If both Assertion and Reason are true but the Reason is not the correct explanation of the Assertion, then mark b.
- C. If Assertion is true statement but Reason is false, then mark c.
- D. If both Assertion and Reason are false statements, then mark d.

Answer: D



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135. In DPT, T stands for

- A. tuberculosis
- B. Tetanus
- C. Trichomoniasis
- D. Taeniasis

Answer: B



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136. Find out the wrong match

Disease	Causative agent	Mode of spread
(1) AIDS	Human Immuno deficiency virus	Sexual contact and contaminated blood
(2) Common cold	<i>Rhino virus</i>	Droplet infection
(3) Ascariasis	<i>Ascaris</i>	Bite of female mosquito vector
(4) Typhoid	<i>Salmonella typhi</i>	Food and contaminated water



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137. Cancer cells are more easily damaged by radiation than normal cells because they are:

- A. Different in structure
- B. Non-dividing
- C. Starved of mutation
- D. Undergoing rapid division

Answer: D



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138. Antibodies in our body are complex

- A. Lipoproteins
- B. Steroids
- C. Prostaglandins
- D. Glycoproteins

Answer: D



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139. If you suspect major deficiency of antibodies in a person, to which of the following would you look for confirmatory evidence

- A. Serum globulins
- B. Fibrinogen in the plasma
- C. Haemocytes
- D. Serum albumins

Answer: A



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140. Which type of white blood cells are concerned with the release of histamine and the natural anticoagulant heparin ?

A. Monocytes

B. Neutrophils

C. Basophils

D. Eosinophils

Answer: C



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141. Most active phagocytic white blood cells are

- A. Neutrophils and monocytes
- B. Neutrophils and eosinophils
- C. Lymphocytes and macrophages
- D. Eosinophils and lymphocytes

Answer: C



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142. To which type of barriers under innate immunity, do the saliva in the mouth and the tears the eyes, belong?

- A. Physical barriers
- B. Cytokine barriers
- C. Cellular barriers
- D. Physiological barriers

Answer: C



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143. Match column I with column II and select the correct option from codes given below.

Column I	Column II
Amoebiasis	(i) <i>Treponema pallidum</i>
Diphtheria	(ii) Houseflies as mechanical carriers
Cholera	(iii) DPT vaccine
Syphilis	(iv) Oral rehydration therapy

A. A - (ii), B - (iii), C - (iv), D - (i)

B. A - (i), B - (ii), C - (iii), D - (iv)

C. A - (ii), B - (iv), C - (i), D - (iii)

D. A - (ii), B - (i), C - (iii), D - (iv)

Answer: A



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144. Which one of the following is correct statement regarding the particular psychotropic drug specified?

A. Barbiturates cause relaxation and temporary euphoria

B. Hashish causes after thought perceptions and hallucinations

C. Opium stimulates nervous system and causes hallucinations

D. Morphine leads to delusions and disturbed emotions

Answer: B



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145. Cornea transplant in humans is almost never rejected. This is because

- A. It is a non-living layer
- B. Its cells are least penetrable by bacteria
- C. It has no blood supply

D. It is composed of enculeated cells

Answer: C



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146. The letter "T" in T-lymphocyte refers to

A. Tonsil

B. Thymus

C. Thyroid

D. Thalamus

Answer: B



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147. Which of the following is a pair of viral diseases

- A. Dysentery, Common Cold
- B. Typhoid, Tuberculosis
- C. Ringworm, AIDS
- D. Common Cold, AIDS

Answer: D



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148. A person likely to develop tetanus is immunized by administering

or

When a quick immune response is required due to infection of a deadly microbes, the patient is injected with

A. Wide specturm antibiotics

B. Weakened germs

C. Dead germs

D. Preformed antibodies

Answer: D



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149. Which one of the following statements is correct ?

A. Heroin accelerates body functions.

B. Malignant tumours may not exhibit metastasis

C. Patients who have undergone surgery are given cannabinoid to relieve pain.

D. Benign tumours show the property of metastasis.

Answer: A



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150. Globulins contained in human blood plasma are primarily involved in

A. A) Oxygen transport in the blood

B. B) Clotting of blood

C. C) Defense mechanisms of body

D. D) Osmotic balance of body fluids

Answer: C



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151. Use of antithistamines and steriod give a quick relief from

A. Cough

B. Headache

C. Allergy

D. Nausea

Answer: C



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152. Ringworm in humans is caused by:

A. A) Viruses

B. B) Bacteria

C. C) Fungi

D. D) Nematodes

Answer: C



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153. Which one of the following statements is correct with respect to AIDS?

- A. The causative HIV retrovirus enters helper T-lymphocytes thus reducing their numbers
- B. The HIV can be transmitted through eating food together with an infected person

C. Drug addicts are least susceptible to HIV infection

D. AIDS patients are being fully cured cent per cent with proper care and nutrition

Answer: A



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154. Select the correct statement from the ones given below

- A. Cocaine is given to patients after surgery as it stimulates recovery
- B. Barbiturates when given to criminals make them tell the truth
- C. Morphine is often given a persons who have undergone surgery as a pain killer
- D. Chewing tobacco lowers blood pressure and heart rate

Answer: C



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155. At which stage of HIV infection does one usually show symptoms of AIDS

A. When the infecting retrovirus enter host cells

B. When viral DNA is produced by reverse transcriptase

C. When HIV replicates rapidly in helper T-lymphocytes and damages large number of these

D. Within 15 days of sexual contact with an infected person

Answer: C



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156. Which one of the following acts as a physiological barrier to the entry of microorganisms in human body

A. Epithelium of Urogenital tract

B. Tears

C. Monocytes

D. Skin

Answer: B



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157. A certain patient is suspected to be suffering from Acquired Immuno Deficiency Syndrome. Which diagnostic technique will you recommend for its detection?

A. ELISA

B. MRI

C. Ultra sound

D. WIDAL

Answer: A



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158. Which one of the following is not a property of cancerous cells whereas the remaining three are

- A. A) They do not remain confined in the area of formation
- B. B) They divide in an uncontrolled manner
- C. C) They show contact inhibition
- D. D) They compete with normal cells for vital nutrients

Answer: C



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159. Common cold differs from pneumonia in, that

A. Pneumonia can be prevented by a live attenuated bacterial whereas the common cold has no effective vaccine.

B. Pneumonia is caused by a virus while the common cold is caused by the bacterium *Haemophilus influenzae*

C. Pneumonia pathogen infects alveoli whereas the common cold affects nose and respiratory passage but not the lungs

D. Pneumonia is a communicable disease whereas the common cold is a nutritional

deficiency disease

Answer: C



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160. In which one of the following options the two examples are correctly matched with their

particular type of immunity?

Examples	Type of immunity
(1) Anti-tetanus and anti-snake bite injections	Active immunity
(2) Saliva in mouth and Tears in eyes	Physical barriers
(3) Mucus coating of epithelium lining the urinogenital tract and the HCl in stomach	Physiological barriers
(4) Polymorphonuclear leukocytes and monocytes	Cellular barriers



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161. Cirrhosis of liver is caused by the chronic intake of

- A. Alcohol
- B. Tobacco (Chewing)
- C. Cocaine
- D. Opium

Answer: A



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162. The pathogen *Microsporium* responsible for ringworm disease in humans belongs to the same Kingdom of organisms as that of

- A. *Taenia*, a tapeworm
- B. *Wuchereria*, a filarial worm
- C. *Rhizopus*, a mould
- D. *Ascaris*, a round worm

Answer: C



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163. Which one of the following option gives the correct matching of a disease with its causative organism.

A. Taeniasis - Taenia solium

B. Ascariasis - Pinworm

C. Amoebiasis - Paramecium

D. All of these

Answer: 2



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164. Common cold is not cured by antibiotics because it is

- A. Caused by a virus
- B. Caused by a Gram-positive bacterium
- C. Caused by a Gram-negative bacterium
- D. Not an infectious disease

Answer: A



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165. Select the correct statement with respect to diseases and immunisation

- A. A) If due to some reason B-and T-lymphocytes are damaged, the body will not produce antibodies against a pathogen
- B. B) Injection of dead/inactivated pathogens causes passive immunity
- C. C) Certain protozoans have been used to mass produce hepatitis B vaccine

D. D) Injection of snake anti-venom against snake bite is an example of active immunisation

Answer: A



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166. Read the following four statements (a-d):

(a) Colostrum is recommended for the new born because it is rich in antigens

(b) Chikengunya is caused by a Gram negative bacterium

(c) Tissue culture has proved useful in obtaining virus-free plants

(d) Beer is manufactured by distillation of fermented grape juice

How many of the above Statements are wrong

A. A) Four

B. B) One

C. C) Two

D. D) Three

Answer: D



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167. Which one of the following statements is correct with respect of immunity ?

A. A) Antibodies are protein molecules, each of which has four light chains

B. B) Rejection of a kidney graft is, the function of B-lymphocytes

C. C) Preformed antibodies need to be injected to treat the bite by a viper snake

D. D) The antibodies against small pox pathogen are produced by T-lymphocytes

Answer: C



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A

- 1) Inland fisheries
- 2) Marine fisheries
- 3) Exotic breeds
- 4) Local breeds
- 5) cross-breeding

B

- a) Sahiwal
- b) Aseel
- c) catlas
- d) Bhetki
- e) Brown Swiss

168.



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169. What is not true about innate immunity?

- A. First line of defence
- B. Includes all defence elements with which an individual is born
- C. Lysozyme and interferons are part of it
- D. Specific in nature

Answer: D



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170. Which of the following relaxes muscles and relieves anxiety?

A. Hallucinogens

B. Tranquiliser

C. Stimulants

D. Opiates

Answer: B



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171. What is 'pap smear'?

A. Screening test for detection of cervix cancer

- B. Diagnostic test for detection of Human papilloma virus from cervix and vagina
- C. Testing blood smear from cervix
- D. Screen test for detection of breast cancer

Answer: A



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172. Which organism causes Pertussis?

- A. Bordetella
- B. Corynebacterium

C. Mycobacterium

D. Clostridium

Answer: A



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173. Find the mismatch

A. Sleeping sickness - Trypanosoma

B. Syphilis - Trichuris

C. Typhoid - Salmonella

D. Kala azar - Leishmania

Answer: B



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174. The maturation and development of T-lymphocytes takes place in

- A. Thymus
- B. Spleen
- C. Lymph nodes
- D. Bone marrow

Answer: A



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175. The antibodies in the blood are secreted by

- A. Neutrophils
- B. Basophils
- C. Monocytes
- D. lymphocytes

Answer: D



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176. The most common organ involved in extraintestinal amoebiasis is

A. Liver

B. Lungs

C. Brain

D. Spleen

Answer: A



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177. Interferons have been used in the treatment of

A. Ascariasis

B. Influenza

C. Filariasis

D. Giardiasis

Answer: B



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178. The term humor in humoral immunity implies

- A. Hormones
- B. Bone marrow
- C. Plasma and lymph
- D. Cerebrospinal fluid

Answer: C



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179. Interferons are

A. Protein products of macrophages which destroy microbes

B. Proteins secreted by virus infected cells which protect non-infected cells from further viral infection

C. Allergens

D. Antibodies molecules

Answer: B



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180. Which of the following properties of acquired immunity is the basis of vaccination?

A. A) Specificity

B. B) Diversity

C. C) Memory

D. D) Discrimination between Self and non-self

Answer: C



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181. Which one is not included in the category of physiological barriers to prevent microbial growth?

A. A) Acid in the Stomach

B. B) Saliva in the Mouth

C. C) Tears from Eyes

D. D) Virus-infected cells secrete Interferons

Answer: D



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182. Polio' is caused by

- A. Bacteriophage
- B. Virus with a single strand RNA
- C. Virus with a single strand DNA
- D. Virus with double strand DNA

Answer: B



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183. Which one of the following pairs of diseases is viral as well as transmitted by mosquitoes ?

- A. Elephantiasis and Dengue
- B. Yellow fever and sleeping sickness
- C. Encephelatis and sleeping sickness
- D. Yellow fever and Dengue

Answer: D



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184. Which Ig is produced in primary immune response ?

or

Which antibody is first to be released into blood following an infection?

A. A) IgA

B. B) IgE

C. C) IgG

D. D) IgM

Answer: D



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185. Magic bullets are the:

A. recombinant vaccines

B. monoclonal antibodies

C. chemotherapy drugs for cancer

D. anabolic steroids

Answer: B



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186. If the person shows the production of interferons in his body, chances are that he is suffering from

A. A) anthrax

B. B) malaria

C. C) measles

D. D) tetanus

Answer: C



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187. Globulins contained in human blood plasma are primarily involved in

A. A) defense mechanisms of body

B. B) osmotic balance of body fluids

C. C) oxygen transport in the blood

D. D) clotting of blood

Answer: A



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188. Athlete's foot' disease is caused by

A. Tinea pedis

B. Tinea capitis

C. Candida albicans

D. Rickettsia

Answer: A



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189. Which one of the following groups includes are sexually transmitted diseases

- A. AIDS, syphilis, cholera
- B. HIV, malaria, trichomoniasis
- C. Gonorrhoea, hepatitis-B, chlamydiasis
- D. Hepatitis-B, haemophilia, AIDS

Answer: C



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190. Infection of Ascaris usually occurs by :

- A. Tse-tsefly
- B. mosquito bite
- C. drinking water containing eggs of Ascaris.
- D. eating imperfectly cooked pork

Answer: C



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191. The cell-mediated immunity inside the human body is carried out by

- A. Thrombocytes
- B. Erythrocytes
- C. T-lymphocytes
- D. B-lymphocytes

Answer: C



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192. Which is particular type of drug that is obtained from the plant



A. Pain-killer

B. Hallucinogen

C. depressant

D. Stimulant

Answer: B



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193. At which stage of HIV infection does one usually show symptoms of AIDS?

A. When the viral DNA is produced by transcriptase

B. Within 15 days of sexual contact with an infected retro virus enters host cells

C. When the infected ratio virus enters host cells

D. When HIV damages large number of helper T-lymphocytes

Answer: D



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194. Which of the following endoparasites of humans does show viviparity

- A. *Enterobius vermicularis*
- B. *Trichinella spiralis*
- C. *Ascaris lumbricoides*
- D. *Ancylostoma duodenale*

Answer: B



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195. Which of the following is not a sexually transmitted disease ?

A. Acquired Immuno Deficiency Syndrome

(AIDS)

B. Trichomoniasis

C. Encephalitis

D. Syphilis

Answer: C



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196. HIV that causes, AIDS first starts destroying

- A. Leucocytes
- B. Helper T-Lymphocytes
- C. Thrombocytes
- D. B-Lymphocytes

Answer: B



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197. The active form of *Entamoeba-histolytica* feeds upon

- A. mucosa and submucosa of colon only food in intestine
- B. food in intestine
- C. blood only
- D. erythrocytes, mucosa and submucosa of colon

Answer: D



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198. Which of the following viruses is not transferred through semen of an infected male

A. Human immunodeficiency virus

B. Chikungunya virus

C. Ebola virus

D. Hepatitis B virus

Answer: B



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199. Match the disease with its correct type of vaccine

- | | |
|--------------------|------------------------|
| (A) tuberculosis | (i) harmless virus |
| (B) whooping cough | (ii) inactivated toxin |
| (C) diphtheria | (iii) Killed bacteria |
| (D) polio | (iv) harmless bacteria |

A.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(iii)	(ii)	(iv)	(i)

B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(iv)	(iii)	(ii)	(i)

C.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(i)	(ii)	(iv)	(iii)

D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(ii)	(i)	(iii)	(iv)

Answer: 2



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200. Which of the following immunoglobulins does constitute the largest percentage in human milk ?

A. Ig D

B. Ig M

C. Ig A

D. Ig G

Answer: C



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201. Grafted kidney may rejected in a patient due to

- A. Humoral immune response
- B. Cell-mediated immune response
- C. Passive immune response
- D. Innate immune response

Answer: B



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202. Which of the following diseases is caused by a protozoan

A. Syphilis

B. influenza

C. Babesiosis

D. Blastomycosis

Answer: C



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203. In higher vertebrates, the immune system can distinguish self-cells and non-self. If this property is lost due to genetic abnormality and it attacks self-cells, then it leads to

- A. Graft rejection
- B. Auto-immune diseases
- C. Active immunity
- D. Allergic response

Answer: B



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204. Antivenom injection contains preformed antibodies while polio drops that are administered into the body contain

- A. Harvested antibodies
- B. Gamma globulin
- C. Attenuated pathogens
- D. Activated pathogens

Answer: C



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205. Asthma may be attributed to

- A. Allergic reaction of the mast cells in the lungs
- B. Inflammation of the trachea
- C. Accumulation of fluid in the lungs
- D. Bacterial infection of the lungs

Answer: A



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206. Which of the following sets of disease is caused by bacteria

- A. Cholera and tetanus
- B. Typhoid and smallpox
- C. Tetanus and mumps
- D. Herpes and influenza

Answer: A



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207. Which of the following is correct regarding AIDS causative agent HIV

A. HIV is enveloped virus containing one molecules of single-stranded RNA and one molecule of reverse transcriptase.

B. HIV is enveloped virus that contains two identical molecule of single stranded RNA and two molecules of reverse transcriptase.

C. HIV is unenveloped tetrovirus

D. HIV does not escape but attacks the acquired immune response.

Answer: B



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208. MALT constitutes about _____ percent of the lymphoid tissue in human body

A. 50 %

B. 20 %

C. 70 %

D. 10 %

Answer: A



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209. Transplantation of tissues/organs to save certain patients often fails due to rejection of such tissues/organs by the patient. Which type of immune response is responsible for such rejections?

A. Autoimmune response

B. Cell-mediated immune response

C. Hormonal immune response

D. Physiological immune response

Answer: B



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210. Which of the following is an autoimmune disease?

A. Vitiligo

B. Alzheimer's disease

C. Rheumatoid arthritis

D. Psoriasis

Answer: B



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211. Which part of poppy plant is used to obtain the drug 'Smack'?

A. Leaves

B. Roots

C. Latex

D. Flowers

Answer: C



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